

# USE OF PERSONAL COMMUNICATION DEVICES FOR USER AUTHENTICATION

## Abstract of the Disclosure

5 A password setting system for a secure system includes a user token server and a  
communication module. The user token server generates a random token in response to  
a request for a new password from a user. The server creates a new password by  
concatenating a secret passcode that is known to the user with the token. The server sets  
the password associated with the user's user ID to be the new password. The  
communication module transmits the token to a personal communication device, such  
10 as a mobile phone or a pager carried by the user. The user concatenates the secret  
passcode with the received token in order to form a valid password, which the user  
submits to gain access to the secure system. Accordingly, access to the system is based  
upon: nonsecret information known to the user, such as the user ID; secret information  
known to the user, such as the passcode; and information provided to the user through  
15 an object possessed by the user, such as the token.

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